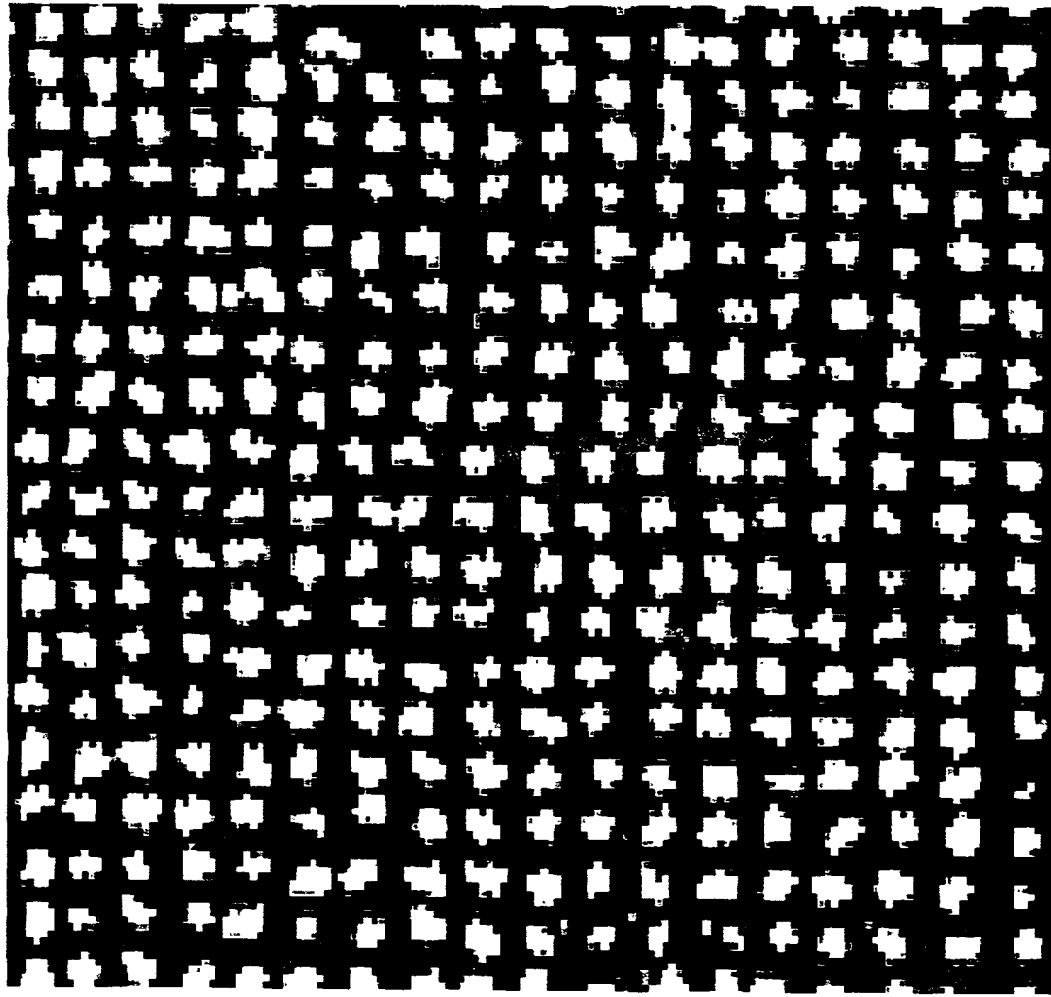


and it is often the case that the data are not as good as they appear to be. The data are often the result of a process that is not well understood and the data are often the result of a process that is not well understood and the data are often the result of a process that is not well understood.

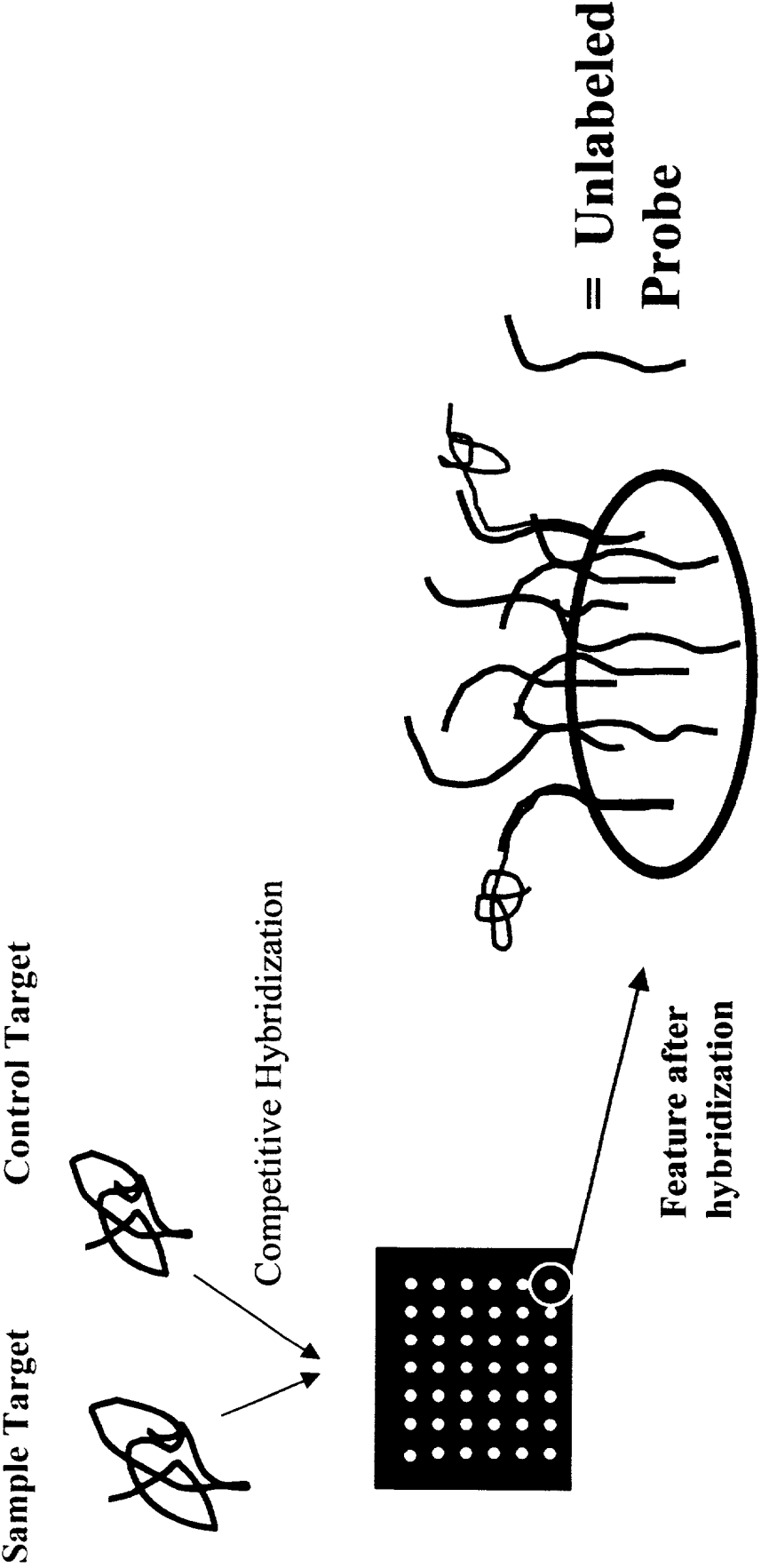
Figure 1



Close up view showing  
342 features of a 55K  
(1X0.6 in) feature  
array of spotted dye.

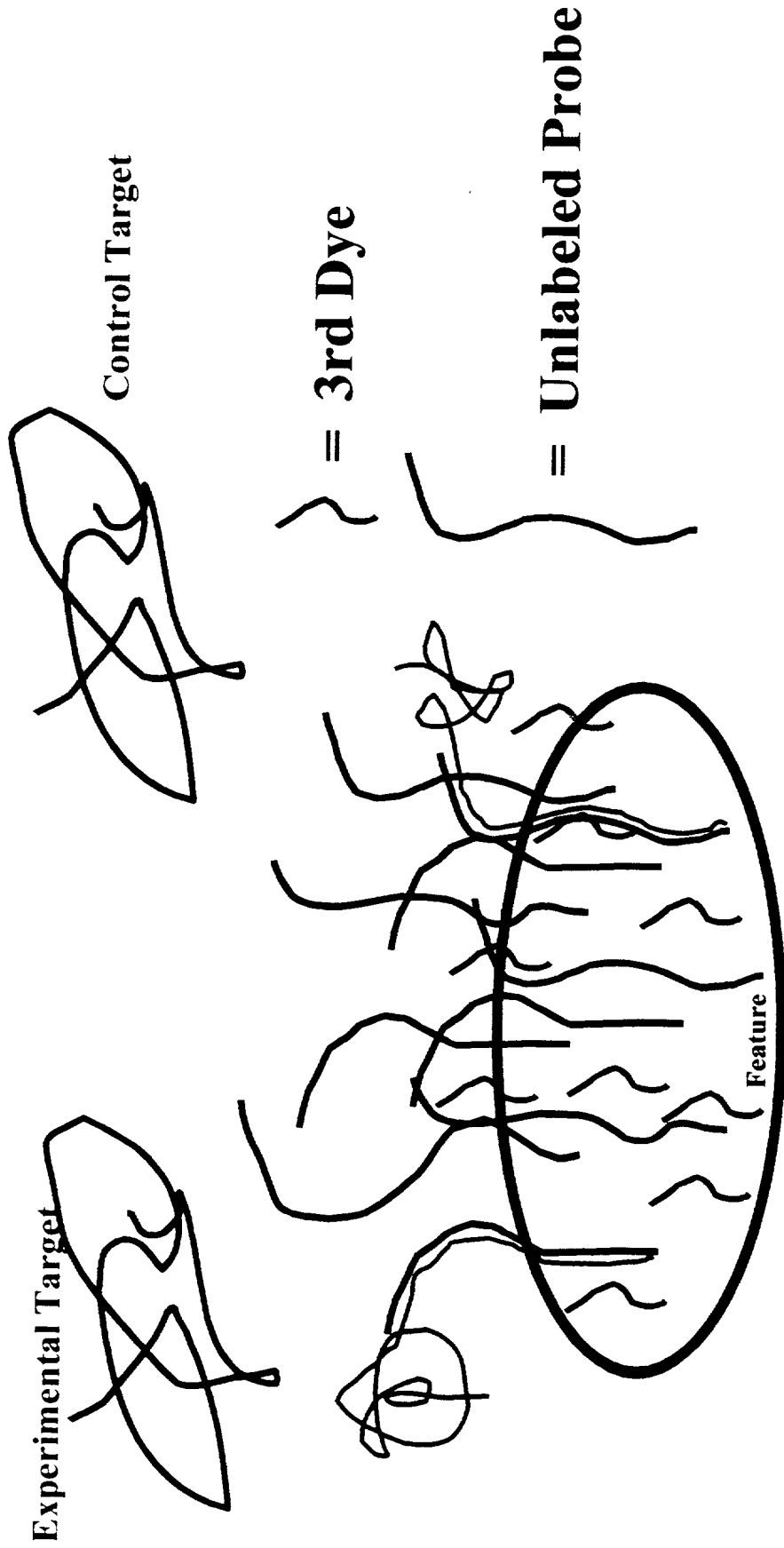
**Figure 2**

A competitive hybridization between experimental target and control target labeled with two different colors. Note in this approach features are not detectable unless a hybridization event occurs.



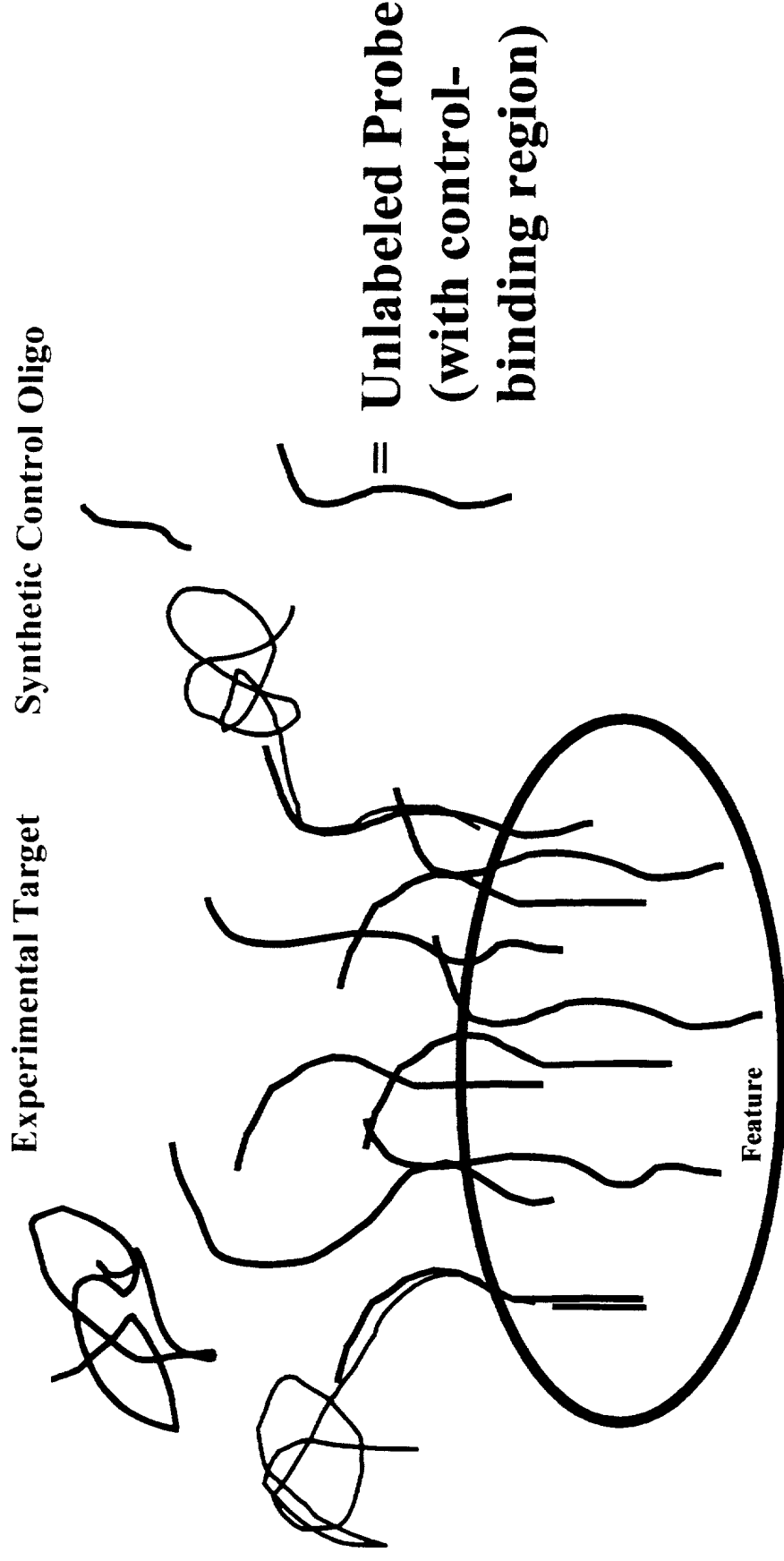
**Figure 3**

Put a third signal into each feature during manufacturing of the array. Use third signal for spot finding and quantitation. A competitive hybridization between biologically derived experimental and control targets labeled with two different colors is then performed.



## Figure 4

Deposit each feature without label. Perform non-competitive hybridization to array probes using a synthetic green-labeled control oligo and red-labeled cDNA samples. Requires a hybridization reagent containing a single green-labeled control oligo complementary to each feature on the array. Use green signal for spot finding and quantitation.



**Figure 5**

Put a label into each feature during manufacturing of the array. Label placed either directly on probe oligos or onto different co-spotted oligos. Use green dye for feature finding and quantitation. A gene expression assay would include a 1-color hybridization of red-labeled experimental target onto array. Use green signal to help better quantitate signal in red channel.

